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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/990,030	11/21/2001	Gopal B. Avinash	GEMS:0183 112017	2750
7590 11/30/2004		EXAMINER		
Patrick S. Yoder			KASSA, YOSEF	
Fletcher, Yoder & Van Someren P.O. Box 692289			ART UNIT	PAPER NUMBER
Houston, TX 77269-2289			2625	H
	•		DATE MAILED: 11/30/2004	•

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)		
•	09/990,030	AVINASH ET AL.		
Office Action Summary	Examiner	Art Unit		
	YOSEF KASSA	2625		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	ith the correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep of 16 NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute that three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a oly within the statutory minimum of thin will apply and will expire SIX (6) MON e, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).		
Status				
1)⊠ Responsive to communication(s) filed on 21 N	November 2001.			
3) Since this application is in condition for allowa		ters, prosecution as to the merits is		
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	D. 11, 453 O.G. 213.		
Disposition of Claims				
4)  Claim(s) 1-94 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) 1-28 and 71-94 is/are allowed. 6)  Claim(s) 29-70 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/o	wn from consideration.	·		
Application Papers				
9) The specification is objected to by the Examine	· ·			
10) ☐ The drawing(s) filed on 21 November 2001 is/a  Applicant may not request that any objection to the				
Replacement drawing sheet(s) including the correct		` ,		
11) The oath or declaration is objected to by the E	-			
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in A prity documents have been u (PCT Rule 17.2(a)).	application No received in this National Stage		
* See the attached detailed Office action for a list	or the certified copies not	received.		
Attachment(s)				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3.</li> </ol>	Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152)		

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 29-51 are rejected under 35 U.S.C. 112, second paragraph. That is, claim 29 is recites the limitations "the dominant" in line 9, and "the homogenization" in line 10. There is insufficient antecedent basis for this limitation in the claim.

Claims 52-70 are rejected under 35 U.S.C. 112, second paragraph. That is, claim 52 recites the limitation "the non-selected" in line 8. There is insufficient antecedent basis for this limitation in the claim.

Claim 52 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Examiner did not understand the phase "different manners" recited in line 8. It is impossible to make or use the process without providing a clear definition/explanation of the phase.

### Allowable Subject Matter

2. Claims 1-28 and 71-94 are allowed.

The following is an examiner's statement of reasons for allowance. The closest prior art of record failed to teach or suggest, reducing image noise by selectively processing one or more selected regions of the shrunken image and differentially processing one or more non-selected regions of the shrunken image such that a

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processed image results, expanding the processed image by the given factor to produce an expanded image, blending one or more selected regions of the expanded image with one or more corresponding regions of the initial image to produce a blended image, and correcting a plurality of intensity values of the blended image by differentially processing two or more regions (claims 1-28); and identifying one or more structural features from the smoothed image data, orientation smoothing the structural features, homogenization smoothing non-structural regions, orientation sharpening the structural features, expanding the shrunken image to the same dimensions as the initial image to form an expanded image, blending of the initial image data into the expanded image data, and differentially correcting intensity values in two or more regions of the blended image using an image mask (claims 71-94). Therefore, in combination with all the other limitations claims 1-28 and 71-94 are allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Other Prior Art Cited

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent No. (6,424,730) to Wang et al discloses medical image enhancement method for hardcopy prints.

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US Patent No. (6,717,610) to Bos et al discloses wide angle image capture system for vehicle

US Patent No. (6,018,597) to Maltsev et al discloses method and apparatus for changing or mapping video...

US Patent No. (6,633,662) to Ravkin discloses identification of objects of interest...

US Patent No. (5,860,931) to Chandler discloses ultrasound method and system for measuring perfusion.

US Patent No. (6,720,997) to Horie et al discloses image generating apparatus.

### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOSEF KASSA whose telephone number is (703) 306-5918. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BHAVESH MEHTA can be reached on (703) 308-5246. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9306 for regular communication and (703) 872-9306 for after Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the customer service office whose telephone number is (703) 306-5631. The group receptionist number for TC 2600 is (703) 305-4700.

## **PATENT EXAMINER**

Yosef Kassą

11/16/04.